PA T COOPERATION TREATY

	From the INTERNATIONAL BUREAU			
PCT	To:			
NOTIFICATION OF THE RECORDING OF A CHANGE (PCT Rule 92bis.1 and Administrative Instructions, Section 422) Date of mailing (day/month/year)	GERVASI, Gemma Notarbartolo & Gervasi S.p.A. Corso di Porta Vittoria, 9 I-20122 Milan ITALIE			
01 November 2000 (01.11.00)				
Applicant's or agent's file reference 1774PTWO	IMPORTANT NOTIFICATION			
International application No. PCT/EP00/00902	International filing date (day/month/year) 04 February 2000 (04.02.00)			
1. The following indications appeared on record concerning:				
X the applicant the inventor	the agent the common representative			
Name and Address SIR INDUSTRIALE S.P.A.	State of Nationality State of Residence			
Via Grocco, 2979 I-27036 Mortara Italy	Telephone No.			
, tuly	Facsimile No.			
	Teleprinter No.			
2. The International Bureau hereby notifies the applicant that t	the following change has been recorded concerning:			
the person the name X the add				
Name and Address	State of Nationality State of Residence			
SIR INDUSTRIALE S.P.A. Via Vittorio Emanuele II, 5	IT IT			
I-27100 Pavia	Telephone No.			
Italy	Facsimile No.			
	Teleprinter No.			
3. Further observations, if necessary:				
4. A copy of this notification has been sent to:				
X the receiving Office	X the designated Offices concerned			
the International Searching Authority	the elected Offices concerned			
the International Preliminary Examining Authority	other:			
	Authorized officer			
The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	C. Cupello			
Facsimile No.: (41-22) 740.14.35	Telephone No.: (41-22) 338.83.38			

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NOTIFICATION OF ELECTION

(PCT Rule 61.2)

From the INTERNATIONAL BUREAU

To:

Commissioner
US Department of Commerce
United States Patent and Trademark
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CP2/5C24
Arlington, VA 22202

Date of mailing (day/month/year)

O1 December 2000 (01.12.00)

ETATS-UNIS D'AMERIQUE
in its capacity as elected Office

International application No.
PCT/EP00/00902

International filing date (day/month/year)
04 February 2000 (04.02.00)

Applicant's or agent's file reference 1774PTWO

Priority date (day/month/year) 12 March 1999 (12.03.99)

Applicant

ROSSI, Pietro, Paolo et al

1.	The designated Office is hereby notified of its election made:
	X In the demand filed with the International Preliminary Examining Authority on:
	11 October 2000 (11.10.00)
	in a notice effecting later election filed with the International Bureau on:
2.	The election X was
	was not
	made before the expiration of 19 months from the priority date or, where Rule 32 applies, within the time limit under Rule 32.2(b).

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland Authorized officer

Claudio Borton

Facsimile No.: (41-22) 740.14.35

Telephone No.: (41-22) 338.83.38

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

GERVASI, Gemma NOTARBARTOLO & GERVASI SERVACIO & GERVAS Corso di Porta Vittoria, 9 1-20122 Milano ITALIE 2 LUE, 2001

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

(PCT Rule 71.1)

Date	of	mailing
(day/	m	ากข่างครา

29.06.2001

Applicant's or agent's file reference

1774PTWO international application No.

PCT/EP00/00902

International filing date (day/month/year)

04/02/2000

Priority date (day/month/year)

IMPORTANT NOTIFICATION

12/03/1999

Applicant

SIR INDUSTRIALE S.P.A. et al.

- 1. The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- 3. Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

Name and mailing address of the IPEA/

European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx 523656 epmu d

Fax. +49 89 2399 - 4465

Authorized officer

Connolly, M

Tel.+49 89 2399-8021



INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No. PCT/EP00/00902

		the drawings,	sheets:				
5.	П	This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed (Rule 70.2(c)):					
		(Any replacement sh report.)	eet containing such amendments must be referred to under item 1 and annexed to this				

- 6. Additional observations, if necessary:
- V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- 1. Statement

Noveity (N)

Yes: No:

Claims 4-6,17,19 Claims 1-3,7-16,18

Inventive step (IS)

Yes:

Claims 4-6,17,19

No: Claims

Industrial applicability (IA)

Yes:

Claims 1-19

No: Claims

2. Citations and explanations see separate sheet

INTERNATIONAL PRELIMINARY **EXAMINATION REPORT - SEPARATE SHEET**

International application No. PCT/EP00/00902

Re Item V

Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such <u>statement</u>

1. Reference is made to the following documents:

D1 = WO-A-9403545

- D2 = "Benzamide, 4-(1,1,dimethyl)-N,N-bis(2-hydroxyethyl)" CHEMLIST COPYRIGHT 2000 ACS, XP002138316 AN 39963 On NDSL Canada Gazette, Part I January 31, 1998
- 2.1. Document D1, which is considered to represent the most relevant state of the art, discloses (page 4, line 2 to page 5, line 13 and claims 1-3 and 10) a powder coating composition containing a carboxylated polyester resin with free carboxy groups and a crosslinking mixture, said mixture comprises at least one compound with a beta-hydroxyalkylamide functionality of 4 and at least one with a functionality of 2 and the weight ratio between the first compound to the second compound is from 90:10 and 10:90.

Consequently, the mean beta-hydroxyalkylamide functionality defined in claims 2 is the same as disclosed in D1.

- 2.2. Therefore, the subject-matter of claims 1-3, 7-16 and 18 lacks novelty in view of D1.
- 2.3. The subject-matter of claim 4 differs from the disclosure of D1 in that a benzamide is used as a crosslinking agent instead of an acetamide.
- 2.4. The subject-matter of claim 19 differs from the disclosure of D1 in that a t-butyl substituted phenyl group is present in the beta-hydroxyalkylamide compound instead of a methyl group.
- The submitted examples show that the replacement of the acetamide of

Jan-17-2002 03:13pm From-MORGAN & FINNEGAN LLP



INTERNATIONAL PRELIMINARY International application No. PCT/EP00/00902 **EXAMINATION REPORT - SEPARATE SHEET**

D1 by the benzamide of the application in the crosslinking mixture having a mean functionality of 3 used in the process for the preparation of powder paints leads to a better aesthetic appearance.

- 3.2. Therefore, the objective technical problem solved by the aforementioned distinguishing feature is to provide a powder paint having a better aesthetic appearance.
- 3.3. The documents of file do not suggest said effect and thus the subjectmatter of claims 4 and 19 as well as of claim 5 and 6 which are dependent on claim 4 and of claim 17 which defines the use of said benzamide compound in the preparation of thermosetting powder paints fulfills the requirements of Article 33(3) PCT.
- 4. For all claims (1-19) industrial applicability is acknowledged.

PCT

(21) International Application Number:





INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(51) International Patent Classification 7:		(11) International Publication Number	er: WO 00/55266
C09D 167/00, C07C 233/69	A1	(43) International Publication Date:	21 September 2000 (21.09.00)

PCT/EP00/00902

(22) International Filing Date: 4 February 2000 (04.02.00)

(30) Priority Data: MI99A000511 12 March 1999 (12.03.99) IT

(71) Applicant (for all designated States except US): SIR INDUSTRIALE S.P.A. [IT/IT]; Via Grocco, 2979, I-27036 Mortara

(72) Inventors; and

(75) Inventors/Applicants (for US only): ROSSI, Pietro, Paolo [IT/IT]; Via Asilo, 1, I-27026 Garlasco (IT). MARELLI, Gino [IT/IT]; Via Cascina Avalle, 1, I-22031 Albavilla (IT). BALDINI, Alberto [IT/IT]; Cascina S. Uliana, I-27026 Garlasco (IT).

(74) Agent: GERVASI, Gemma; Notarbartolo & Gervasi S.p.A., Corso di Porta Vittoria, 9, I-20122 Milan (IT). (81) Designated States: AE, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CR, CU, CZ, DE, DK, DM, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, ARIPO patent (GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG).

Published

With international search report.

(54) Title: MIXTURES OF β -HYDROXYALKYL AMIDES AND THEIR USE AS CROSS-LINKING AGENTS FOR THE PREPARATION OF POWDER PAINTS

(57) Abstract

Described herein are mixtures of β -hydroxyalkyl amides, particularly suitable for being used as cross-linking agents in the field of powder paints, and more in particular as cross-linking agents for painting compositions in which the binding mixture consists of polyester resins having free carboxyl groups. Also described are powder paints that contain the said cross-linking mixtures, and the process for their preparation.

FOR THE PURPOSES OF INFORMATION ONLY

Codes used to identify States party to the PCT on the front pages of pamphlets publishing international applications under the PCT.

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	<u> </u>			
A. CLASSI IPC 7	FICATION OF SUBJECT MATTER C09D167/00 C07C233/69			
According to	o International Patent Classification (IPC) or to both national classifica	ation and IPC		
B. FIELDS	SEARCHED			
Minimum do IPC 7	cumentation searched (classification system followed by classification COPD COPC	on symbols)		
Documental	ion searched other than minimum documentation to the extent that s	uch documents are included in the fields se	parched	
Electronic d	ata base consulted during the international search (name of data bas	se and, where practical, search terms used)	
C. DOCUM	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.	
X	WO 94 03545 A (DSM NV ;STANSSENS ARMAND WIM (NL); ELSHOUT WILHELMU HENRICUS) 17 February 1994 (1994- claims 1-12 & EP 0 652 911 A	JS .	1-3, 7-16,18	
X	cited in the application "Benzamide, 4-(1,1-dimethyl)-N,N-bis(2-hydroxyethyl)" CHEMLIST COPYRIGHT 2000 ACS, XP002138316 AN 39963			
А	On NDSL Canada Gazette, Part I Ja 1998 (1998-01-31) US 4 801 680 A (VICHA SUSAN K ET 31 January 1989 (1989-01-31) claims 1-9		17	
Furth	ner documents are listed in the continuation of box C.	Patent family members are listed	in annex.	
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is combined with one or more other, such documents is combined with one or more other, such documents, such combination being obvious to a person skilled in the art. "8" document member of the same patent family				
	actual completion of the international search	Date of mailing of the international sea	rch report	
	3 May 2000	20/06/2000		
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL ~ 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016 Authorized officer Decocker, L				

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INTERNATIONAL SEARCH REPORT

Inform.

h patent family members

Interpolation No
PC 00/00902

Patent document cited in search report		Publication date		atent family member(s)	Publication date
WO 9403545	A	17-02-1994	BE AU AU CN EP NO	1006097 A 664482 B 4763193 A 1086836 A 0652911 A 950296 A	10-05-1994 16-11-1995 03-03-1994 18-05-1994 17-05-1995 26-01-1995
US 4801680	A	31-01-1989	CA DE DE EP ES JP JP KR MX	1330682 A 3885258 D 3885258 T 0322834 A 2061620 T 2003458 A 2594346 B 9302217 B 164778 B	12-07-1994 02-12-1993 05-05-1994 05-07-1989 16-12-1994 09-01-1990 26-03-1997 27-03-1993 23-09-1992

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INTERNATIONAL PRELIMINARY EXAMINATION REPORTS

(PCT Article 36 and Rule 70)

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Applicant'	s or ac	ent's file reference	<u> </u>		714
1774PT		onto ino reletande	FOR FURTHER AC	TIALI	Notification of Transmittal of International minary Examination Report (Form PCT/IPEA/416)
Internation	nal app	lication No.	International filing date (day/month/year)	Priority date (day/month/year)
PCT/EP00/00902 04/02/2000					12/03/1999
Internation C09D16		ent Classification (IPC) or r	national classification and IPC		
Applicant SIR IND	USTI	RIALE S.P.A. et al.			
1. This and i	intern s tran	ational preliminary exar smitted to the applicant	nination report has been according to Article 36.	prepared by th	is International Preliminary Examining Authority
2. This	REPC	ORT consists of a total of	of 5 sheets, including this	cover sheet.	
t	peen a	amended and are the ba	ed by ANNEXES, i.e. she asis for this report and/or 607 of the Administrative	sheets contain	ription, claims and/or drawings which have ing rectifications made before this Authority der the PCT).
Thes	e ann	exes consist of a total o	f sheets.		
3. This i	report _		ating to the following item	ıs:	
1	⊠	Basis of the report			
II		Priority			
111				elty, inventive	step and industrial applicability
łV	_	Lack of unity of inventi			
V	×	Reasoned statement uncitations and explanations	under Article 35(2) with re ons suporting such state	gard to novelty ment	, inventivė step or industrial applicability;
VI		Certain documents cit	ed		
VII		Certain defects in the i	nternational application		
VIII		Certain observations of	n the international applica	ation	
Date of sub	missio	n of the demand		Date of completi	on of this report
11/10/20	11/10/2000			29.06.2001	
	examir	address of the internationa	al	Authorized office	ST STORY SOES AND VILLE
<u>)</u>	European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d			Kaul-Buchbe	rger, E
Fax: +49 89 2399 - 4465			o opina a	T-11	Both Street Street

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No. PCT/EP00/00902

l. Basis of th rep	port
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	an	e receiving Office in od are not annexed to escription, pages:	response to an invitation under Article 14 are referred to in this report as "originally filed" of this report since they do not contain amendments (Rules 70.16 and 70.17)):					
	1-2	20	as originally filed					
	Cla	aims, No.:						
	1-1	19	as originally filed					
	Dra	awings, sheets:						
	1/5	i-5/5	as originally filed					
2.	Wit lan	With regard to the language , all the elements marked above were available or furnished to this Authority in the anguage in which the international application was filed, unless otherwise indicated under this item.						
	The	ese elements were a	vailable or furnished to this Authority in the following language: , which is:					
			ranslation furnished for the purposes of the international search (under Rule 23.1(b)).					
		the language of pu	blication of the international application (under Rule 48.3(b)).					
		the language of a t 55.2 and/or 55.3).	ranslation furnished for the purposes of international preliminary examination (under Rule					
3.	Witi inte	h regard to any nucl rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:					
		contained in the int	ernational application in written form.					
		filed together with t	he international application in computer readable form.					
		furnished subseque	ently to this Authority in written form.					
		furnished subseque	ently to this Authority in computer readable form.					
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosure if the international application as filed has been furnished.						
		The statement that listing has been furn	the information recorded in computer readable form is identical to the written sequence nished.					
4.	The	amendments have	resulted in the cancellation of:					
		the description,	pages:					
		the claims,	Nos.:					

1. With regard to the elements of the international application (Replacement sheets which have been furnished to

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INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER See	Notification of Transmit	tal of International Search Report	
1774PTWO	ACTION (For			
International application No.	International filing date (day/mo	onth/year) (Earlies	t) Priority Date (day/month/year)	
PCT/EP 00/00902	04/02/2000		12/03/1999	
Applicant				
SIR INDUSTRIALE S.P.A. et	•			
SIK INDUSTRIALE S.F.A. EL	al.			
This International Search Deport has been	- 4 1 46 1 1 44 41 4 4 6			
This International Search Report has been according to Article 18. A copy is being tra	n prepared by this international Sere Insmitted to the International Bure	∍arching Authority and is ∍au.	s transmitted to the applicant	
The first of the County Daniel County	2			
This International Search Report consists of X It is also accompanied by a	of a total of <u>2</u> s a copy of each prior art documen	sheets. t cited in this report.		
	и сору с. сис р	t ched at the report.		
Basis of the report With regard to the lenguage the in-				
 a. With regard to the language, the in language in which it was filed, unle 	nternational search was carried o ess otherwise indicated under this	ut on the basis of the int item.	ternational application in the	
the international search was carried out on the basis of a translation of the international application furnished to this				
Authority (Hule 23.1(b)).				
was carried out on the basis of the	sequence listing:	sed in the international	application, the international search	
	nal application in written form.			
	national application in computer r	eadable form.		
	furnished subsequently to this Authority in written form. furnished subsequently to this Authority in computer readble form.			
the statement that the subs	sequently furnished written seque		pevond the disclosure in the	
international application as	international application as filed has been furnished.			
furnished	the statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished			
2. Certain claims were found	d unsearchable (See Box I).			
	Unity of Invention is lacking (see Box II).			
4. With regard to the title ,				
<u> </u>				
the text has been established by this Authority to read as follows:				
5. With regard to the abstract,				
the text is approved as subr		ali to de la		
the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box III. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.				
6. The figure of the drawings to be publish				
as suggested by the applica			X None of the figures.	
because the applicant failed				
because this figure better ch	naracterizes the invention.			